

15. (new) The particulate matter vibro-fluidizing apparatus of claim 14, wherein the vibrating bodies are constituted by a container filled with the particulate matter and a vibrating medium installed within the container.

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16. (new) The particulate matter vibro-fluidizing apparatus of claim 15, wherein the cooperation of the different vibrating bodies of the vibrating means comprises cooperation where the vibrating means is coupled with one of the vibrating bodies, and cooperation where the other vibrating body receives vibrations from the one vibrating body.

17. (new) The particulate matter vibro-fluidizing apparatus of claim 15, wherein the cooperation of the different types of vibrating bodies of the vibrating means is cooperation coupling with the vibrating means in such a manner that each vibrating body is controlled by an individual vibration.

18. (new) The particulate matter vibro-fluidizing apparatus of claim 15, wherein the vibrating medium is a porous plate.

19. (new) The particulate matter vibro-fluidizing apparatus of claim 15, wherein the vibrating medium is an aggregate comprising a plurality of spherical bodies.

20. (new) The particulate matter vibro-fluidizing apparatus of claim 14, wherein the cooperation of the different vibrating bodies of the vibrating means comprises cooperation where the vibrating means is coupled with one of the vibrating bodies, and cooperation where the other vibrating body receives vibrations from the one vibrating body.

21. (new) The particulate matter vibro-fluidizing apparatus of claim 14, wherein the cooperation of the different types of vibrating bodies of the vibrating means is cooperation coupling with the vibrating means in such a manner that each vibrating body is controlled by an individual vibration.

22. (new) A particulate matter vibration treatment apparatus having vibrating means and means for treating the particulate matter, said means for treating the particulate matter comprising:

container operating in cooperation with said vibrating means; and
amplifying means for amplifying vibrations of the container;

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wherein said particulate matter within the container is to be vibration-treated by a vibrating action caused by said amplifying means.

23. (new) The particulate matter vibration treatment apparatus of claim 22, wherein the vibrating means cooperates in such a manner as to apply vertical vibrations to the bottom part of the container.

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24. (new) The particulate matter vibration treatment apparatus of claim 9, wherein the vibration action comprises a cooperative vibration action of vibration due to the amplifying means and vibration of the container.

25. (new) The particulate matter vibration treatment apparatus of claim 22, said amplifying means comprising:

a plate being provided inside said container spaced away from the bottom of the container; and

floating bodies being provided between said plate and the container so as to collide with said plate.

26. (new) The particulate matter vibration treatment apparatus of claim 25, wherein the vibrating means cooperates in such a manner as to apply vertical vibrations to the bottom part of the container.

27. (new) The particulate matter vibration treatment apparatus of claim 25, wherein the vibration action comprises a cooperative vibration action of vibration due to the amplifying means and vibration of the container.

28. (new) The particulate matter vibration treatment apparatus of claim 25, wherein the plate is comprised of a rubber sheet, a metal material or a resin material.

29. (new) The particulate matter vibration treatment apparatus of claim 25, wherein the floating bodies are constituted by a plurality of spherical bodies made of metal, resin or rubber.

30. (new) The particulate matter vibration treatment apparatus of claim 22, wherein the particulate matter treatment means is used within a vacuum.